CATERPILLAR

Operation and Maintenance Manual

432E BACKHOE LOADER

S/N BXE00001-UP

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Heavy Equipment Manuals

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Product: BACKHOE LOADER
Model: 432E BACKHOE LOADER BXE
Configuration: 432E Backhoe Loader Parallel Lift Side Shift Boom BXE00001-UP (MACHINE) POWERED BY 3054C Engine

Operation and Maintenance Manual
420E, 430E, 432E, 434E, 442E and 444E Backhoe Loaders

Media Number -SEBU7687-10 **Publication Date -01/02/2015** **Date Updated -26/02/2015**

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Foreword

Literature Information

This manual should be stored in the operator's compartment in the literature holder or seat back literature storage area.

This manual contains safety information, operation instructions, transportation information, lubrication information and maintenance information.

Some photographs or illustrations in this publication show details or attachments that can be different from your machine. Guards and covers might have been removed for illustrative purposes.

Continuing improvement and advancement of product design might have caused changes to your machine which are not included in this publication. Read, study and keep this manual with the machine.

Whenever a question arises regarding your machine, or this publication, please consult your Cat dealer for the latest available information.

Safety

The safety section lists basic safety precautions. In addition, this section identifies the text and locations of warning signs and labels used on the machine.

Read and understand the basic precautions listed in the safety section before operating or performing lubrication, maintenance and repair on this machine.

Operation

The operation section is a reference for the new operator and a refresher for the experienced operator. This section includes a discussion of gauges, switches, machine controls, attachment controls, transportation and towing information.

Photographs and illustrations guide the operator through correct procedures of checking, starting, operating and stopping the machine.

Operating techniques outlined in this publication are basic. Skill and techniques develop as the operator gains knowledge of the machine and its capabilities.

Maintenance

The maintenance section is a guide to equipment care. The Maintenance Interval Schedule (MIS) lists the items to be maintained at a specific service interval. Items without specific intervals are listed under the "When Required" service interval. The Maintenance Interval Schedule lists the page number for the step-by-step instructions required to accomplish the scheduled maintenance. Use the Maintenance Interval Schedule as an index or "one safe source" for all maintenance procedures.

Maintenance Intervals

Use the service hour meter to determine servicing intervals. Calendar intervals shown (daily, weekly, monthly, etc.) can be used instead of service hour meter intervals if they provide more convenient servicing schedules and approximate the indicated service hour meter reading. Recommended service should always be performed at the interval that occurs first.

Under extremely severe, dusty or wet operating conditions, more frequent lubrication than is specified in the maintenance intervals chart might be necessary.

Perform service on items at multiples of the original requirement. For example, at every 500 service hours or 3 months, also service those items listed under every 250 service hours or monthly and every 10 service hours or daily.

California Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

Battery posts, terminals and related accessories contain lead and lead compounds. **Wash hands after handling.**

Certified Engine Maintenance

Proper maintenance and repair is essential to keep the engine and machine systems operating correctly. As the heavy duty off-road diesel engine owner, you are responsible for the performance of the required maintenance listed in the Owner Manual, Operation and Maintenance Manual, and Service Manual.

It is prohibited for any person engaged in the business of repairing, servicing, selling, leasing, or trading engines or machines to remove, alter, or render inoperative any emission related device or element of design installed on or in an engine or machine that is in compliance with the regulations (40 CFR Part 89). Certain elements of the machine and engine such as the exhaust system, fuel system, electrical system, intake air system and cooling system may be emission related and should not be altered unless approved by Caterpillar.

Machine Capacity

Additional attachments or modifications may exceed machine design capacity which can adversely affect performance characteristics. Included would be stability and system certifications such as brakes, steering, and rollover protective structures (ROPS). Contact your Cat dealer for further information.

Cat Product Identification Number

Effective First Quarter 2001 the Cat Product Identification Number (PIN) has changed from 8 to 17 characters. In an effort to provide uniform equipment identification, Caterpillar and other construction equipment manufacturers are moving to comply with the latest version of the product identification numbering standard. Non-road machine PINs are defined by ISO 10261. The new PIN format will apply to all Cat machines and generator sets. The PIN plates and frame marking will display the 17 character PIN. The new format will look like the following:

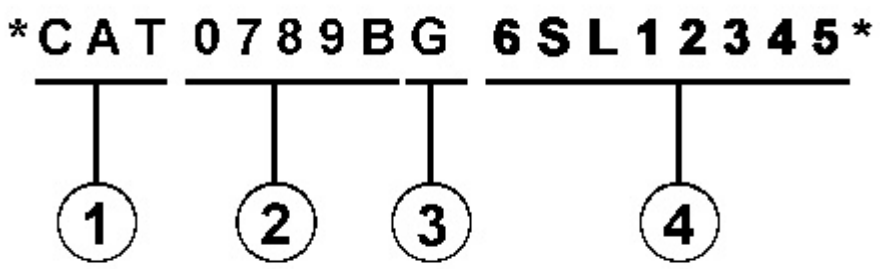

Illustration 1 g00751314

Where:

1. Caterpillar's World Manufacturing Code (characters 1-3)

2. Machine Descriptor (characters 4-8)

3. Check Character (character 9)

4. Machine Indicator Section (MIS) or Product Sequence Number (characters 10-17). These were previously referred to as the Serial Number.

This is the sample of the manual

Click on the download link for complete manual

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Machines and generator sets produced before First Quarter 2001 will maintain their 8 character PIN format.

Components such as engines, transmissions, axles, etc. and work tools will continue to use an 8 character Serial Number (S/N).

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i01897328

Engine Valve Lash - Check

SMCS - 1102-535; 1102-082; 1209-082; 1209

Note: A qualified service person should perform the valve lash check and/or the valve lash adjustment. Special tools and training are required.

Refer to your machine's Service Manual for complete instructions.

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i02363963

Engine Oil and Filter - Change

SMCS - 1302; 1318; 1326

Note: If the sulfur content in the fuel is greater than 1.5% by weight, use an oil with a TBN of 30. With the high sulfur fuel, change the oil and the filter element after every 250 hours or after every month. If the API category is CF-4 or less, change the oil and change the filter element after every 250 hours or after every month. Otherwise, change the oil and the filter element after every 500 hours or after every three months.

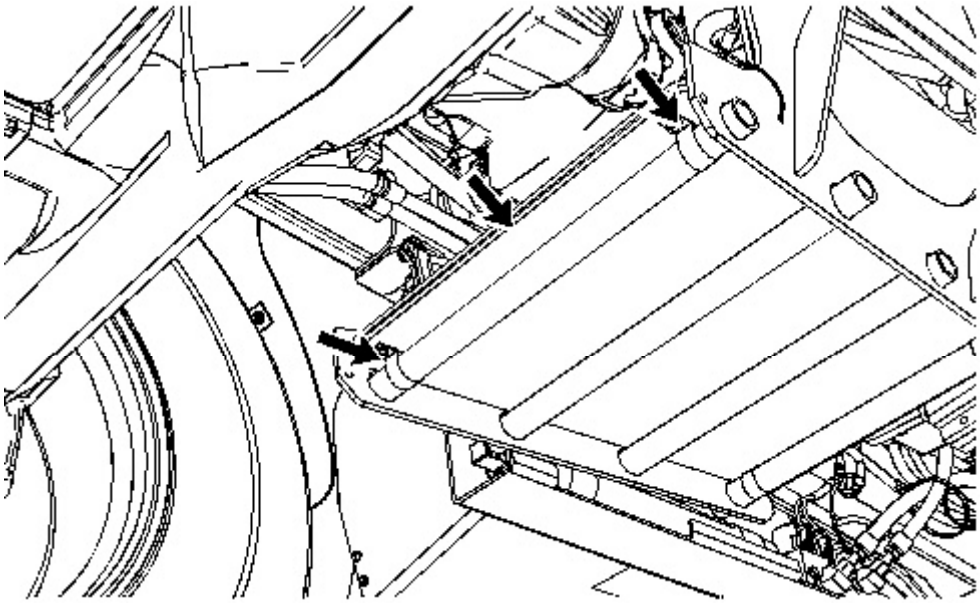

Illustration 1 g01217542

1. If equipped, remove the sound plate from the bottom of the transmission guard. Remove the four clips that secure the sound plate to the transmission guard.

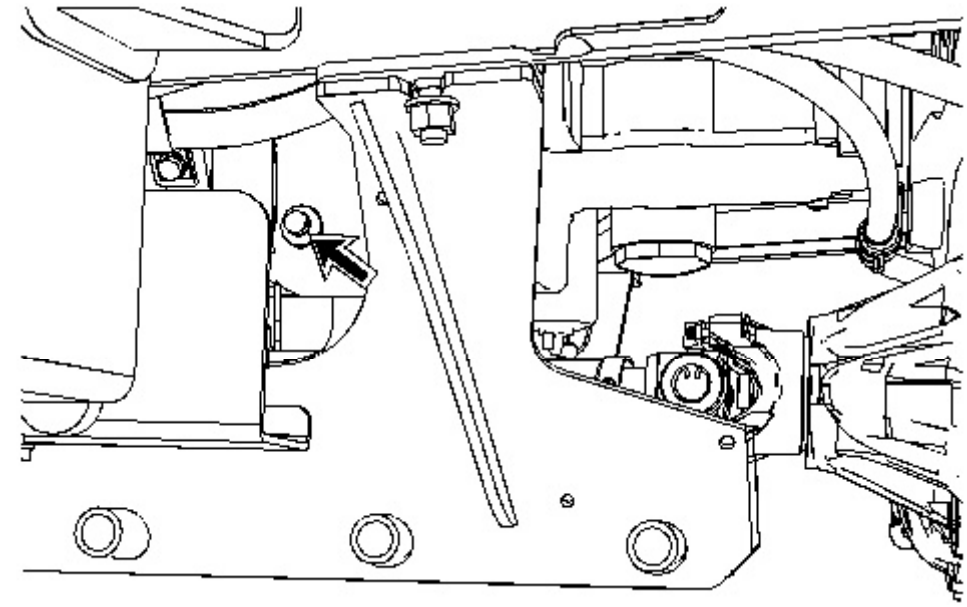

Illustration 2 g01180759

2. Remove the crankcase drain plug and drain the oil into a suitable container. Clean the crankcase drain plug and replace the crankcase drain plug.

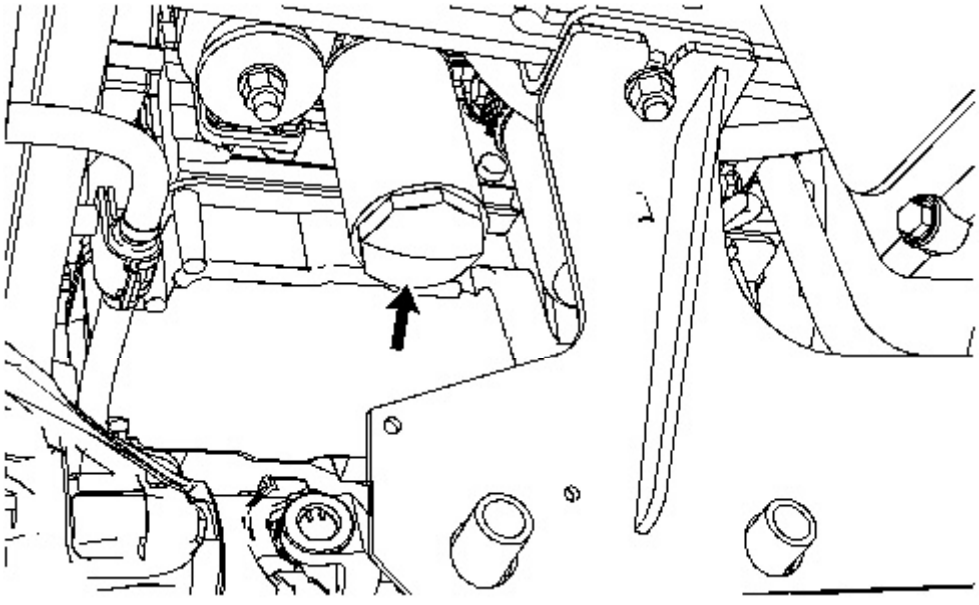

Illustration 3 g01180774

3. Remove the filter element with a strap type wrench.
4. Clean the filter mounting base with a clean cloth. Make sure that the old filter gasket has been removed.
5. Apply a thin film of clean engine oil to the sealing surface of the new filter element.
6. Install the new oil filter by hand.

Instructions for the installation of the filter are printed on the side of each Caterpillar spin-on filter. For non-Caterpillar filters, refer to the installation instructions that are provided by the supplier of the filter.

7. Open the engine access door on the top of the machine.

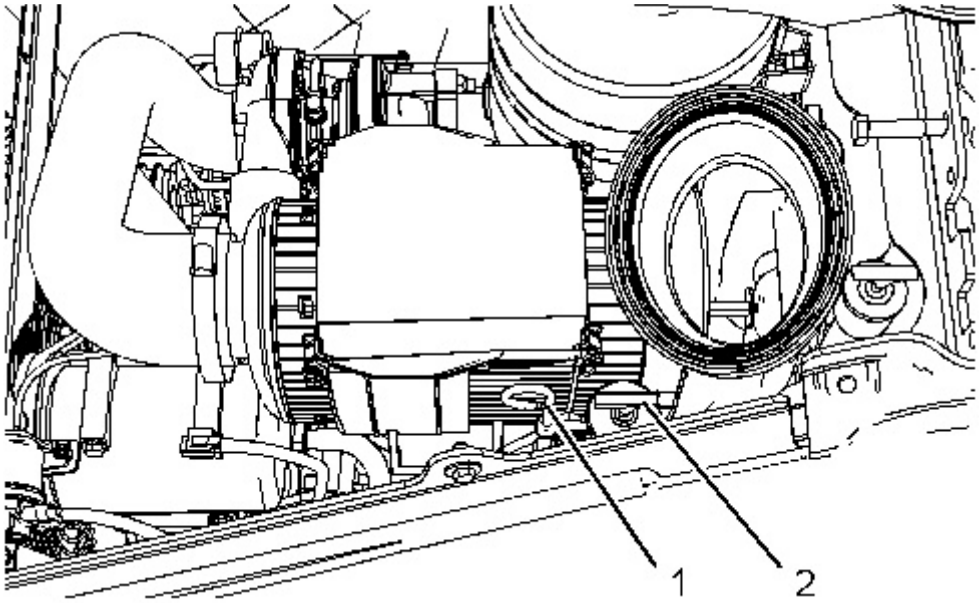

Illustration 4 g01180730

8. Remove the oil filler cap (2). Fill the crankcase with new oil. Refer to Operation and Maintenance Manual, "Lubricant Viscosities" and Operation and Maintenance Manual, "Capacities (Refill)". Clean the oil filler cap and install the oil filler cap.

9. Start the engine and allow the oil to warm. Check for leaks.

10. Stop the engine and allow the oil to drain back into the oil pan. Maintain the oil level in the crosshatched region of the engine oil dipstick (1). Add oil, if necessary.

11. Replace the engine access panel and close the engine access door.

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i06982915

Extendable Stick Pads - Inspect/Adjust - If Equipped

SMCS - 6533-025; 6533-040

Note: The wear pads on the extendable stick are impregnated with a lubricant. The wear pads do not require the application of lubricant. Do not apply lubricant to the pads.

Upper Wear Pad

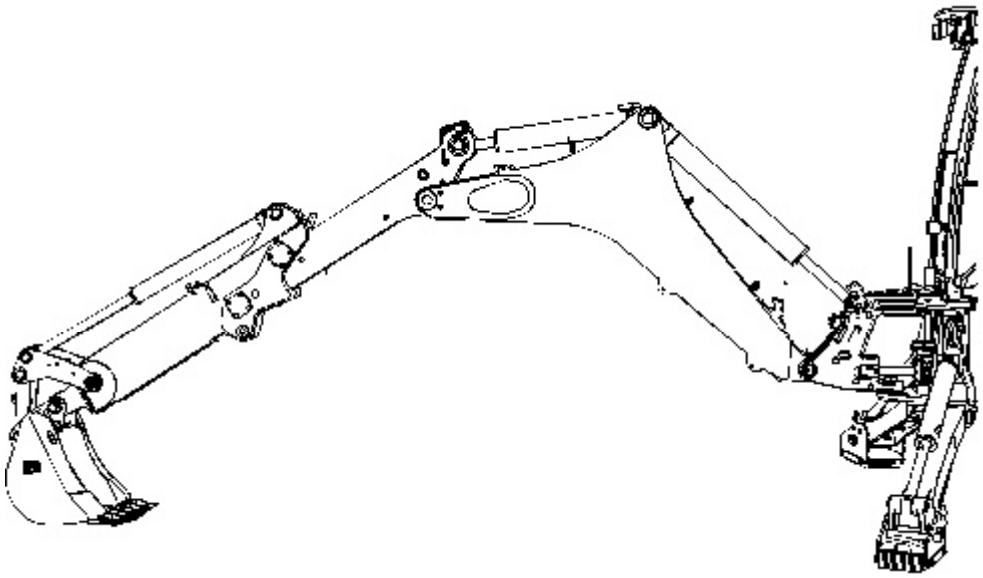

Illustration 1 g01359011

1. Position the machine as shown in Illustration 1.
2. Raise the rear of the backhoe so that tires are 25.4 mm (1 inch) off of the ground.
3. Fully extend the stick. Then, retract the stick 76.2 mm to 101.6 mm (3 inch to 4 inch).

4. Pull stick in and position the rear bucket so that the bottom of the bucket and the bucket teeth are flat on the ground.

5. Fully extend the extendable stick. Lift the stabilizers off the ground.

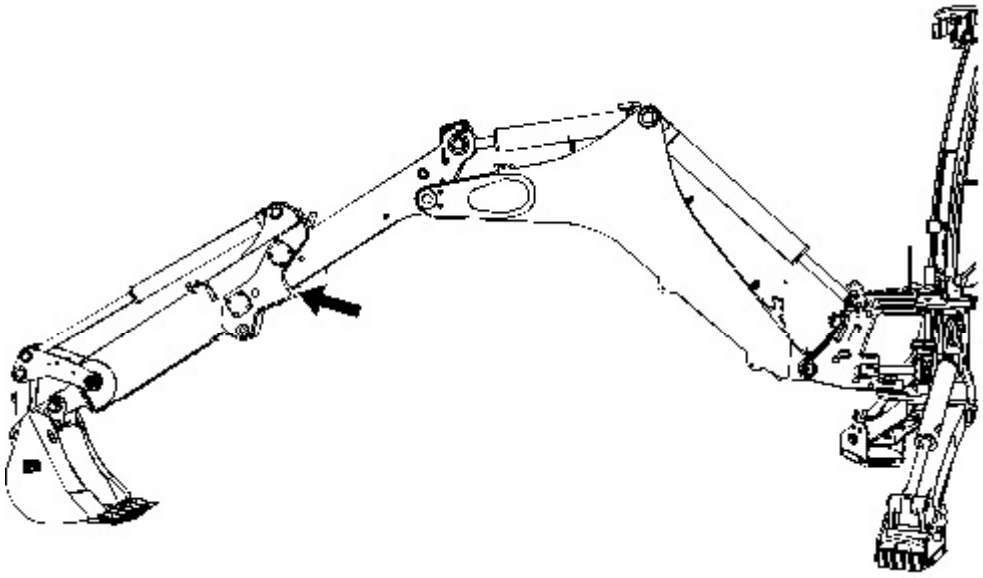

Illustration 2 g01359257

6. Use a feeler gauge in order to measure the gap between wedge (1) and the bottom surface of the inner stick. The gap should be between 0.5 mm (0.0197 inch) and 1.0 mm (0.0394 inch).

7. Check for clearance on the upper wear pad. If the gap between the upper wear pad and the bottom surface of the inner stick is less than 0.5 mm (0.02 inch) proceed to Step 8, or more than 1 mm (0.04 inch) proceed to Step 9.

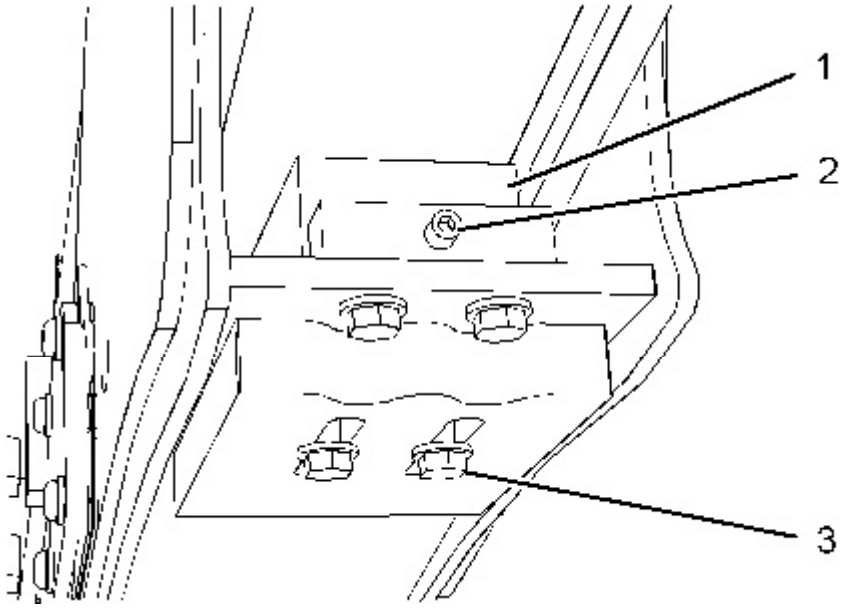

Illustration 3 g01359172

8. If the gap is less than 0.5 mm (0.0197 inch), perform steps 8.a through 8.i.
    a. Retract the extendable stick halfway.
    b. Loosen two bolts (3) that secure the upper wear pad (1) in place.

       Note: Do not loosen the two bolts that are under the setscrew.
    c. Loosen set screw (2) by two turns.
    d. Fully extend the stick. The upper wear pad should slide back to the stop.
    e. Return the machine to the position that is shown in Illustration 2.
    f. Turn the set screw counterclockwise in order to increase the gap.
    g. After you set the clearance, tighten bolts (3) in order to secure the upper wear pad.
    h. Measure the gap that is between the wedge and the bottom surface of the inner stick. If necessary, perform steps 8.a through 8.g.
    i. When the gap is correct, apply **154-9731** Thread Lock Compound to both bolts (3).
    j. Torque bolts (3) to 100 ± 20 N·m (74 ± 15 lb ft).
    k. Proceed to Step 10.
9. If the gap is more than 1.0 mm (0.0394 inch), perform steps 9.a through 9.e.
    a. Loosen two bolts (3) that secure the upper wear pad (1) in place.

       Note: Do not loosen the two bolts that are under the setscrew.
    b. Turn set screw (2) clockwise in order to decrease the gap.
    c. Tighten two bolts (3) in order to secure the upper wear pad.
    d. Measure the gap that is between the wedge and the bottom surface of the inner stick. If necessary, perform steps 9.a through 9.c.
    e. When the gap is correct, apply **154-9731** Thread Lock Compound.
    f. Torque bolts (3) to 100 ± 20 N·m (74 ± 15 lb ft).
    g. Proceed to Step 10.
10. Check extension of the stick after adjusting the upper wear pad.
    a. Set the stick horizontally to the ground.
    b. Extend the stick and retract the stick in order to check for any vibrations.
    c. If no vibration is evident, continue to "Inspect the Gap of the Lower Wear Pads".
    d. If the vibration is evident, adjust the upper wear pad to the maximum gap of 1 mm (0.04 inch). If the vibration continues contact the Dealer Service Network (DSN).

Note: A small amount of vertical movement of the outer slider is acceptable with a gap of 1 mm (0.04 inch).

Inspect the Gap of the Lower Wear Pads

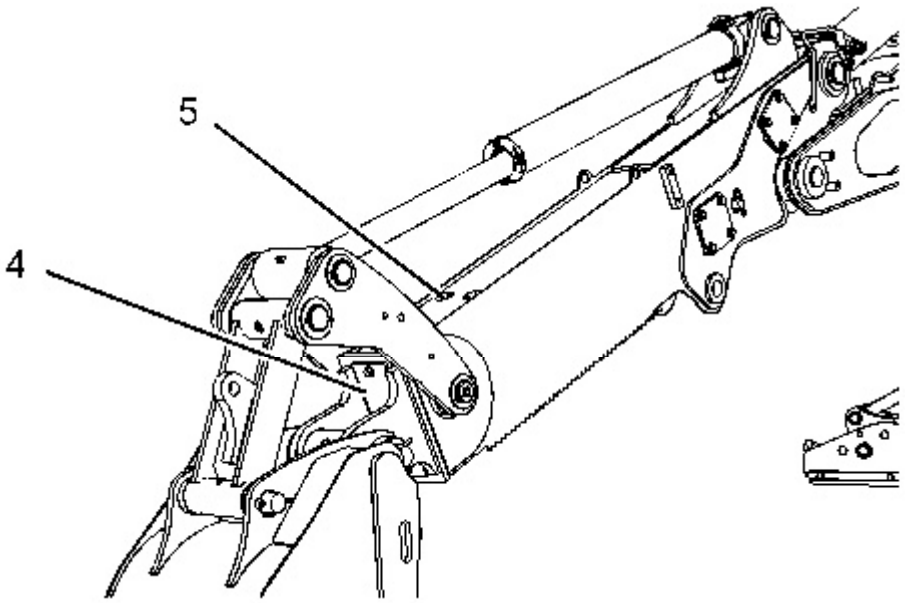

Illustration 4 g01359314

1. Remove access plate (4) and remove the two caps for the access holes (5).

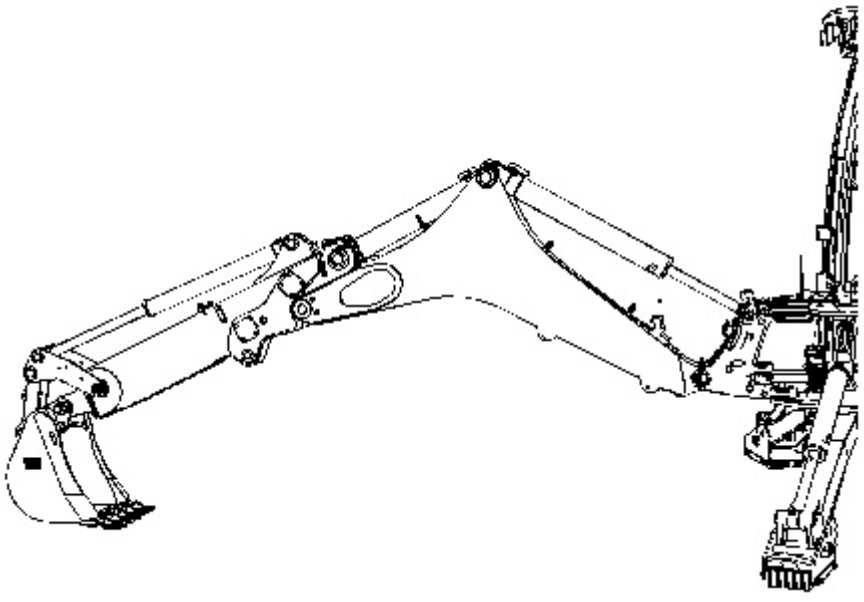

Illustration 5 g01359277

2. Position the machine. Refer to Illustration 5

3. Fully retract the extendable stick in order to allow access through the nose of the stick. Slightly lift the rear of the machine.

4. At access holes (5), measure the gap between the top of the flat wear pad that is bolted to the inner stick and the inside surface of the outer stick.

5. Check for clearance on the lower wear pad. If the gap between the lower wear pad and the bottom surface of the outer stick is less than 0.5 mm (0.02 inch) proceed to Step 6, or more than 1 mm (0.04 inch) proceed to Step 7.

6. If the gap is less than 0.5 mm (0.0197 inch), perform the following steps:

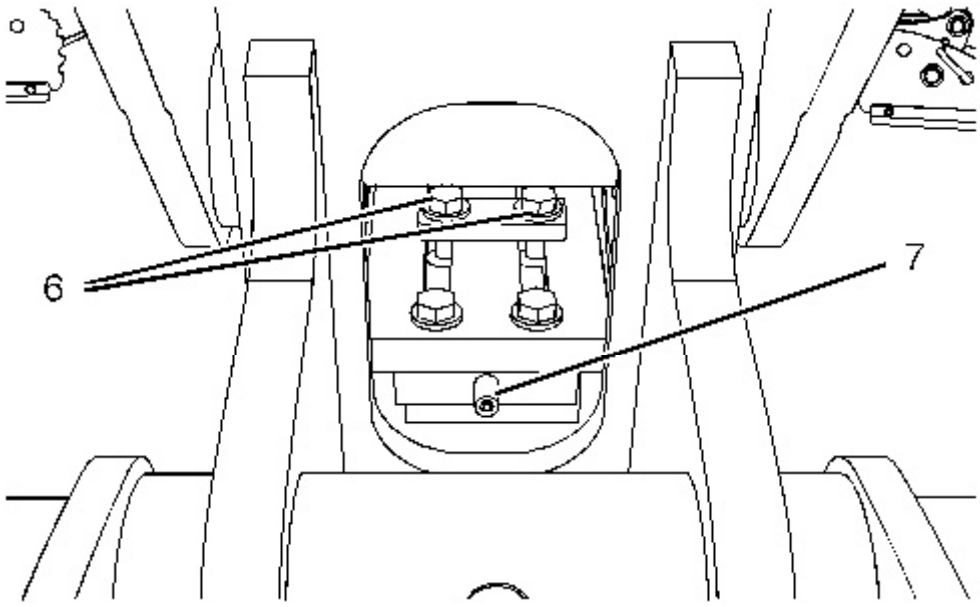

Illustration 6 g01359416

   a. Loosen the two bolts (6) that secure the lower wear pad in place.

      Note: Do not loosen the two bolts that are under the setscrew.

   b. Turn set screw (7) counterclockwise by two turns.

   c. Slide the stick out 25 mm (1 inch) to 75 mm (3 inch).

      Note: The lower wear pad should return against the set screw. This will create a gap between the lower wear pad and the outer extendable stick.

      Note: Ensure that the wear pad is pulled back against the set screw. Tighten the bolts. Ensure that you can access the bolts after the stick has been extended by a few inches.

   d. Return the machine to the position that is shown in figure 5.

   e. Measure the gap and make any needed adjustments.

   f. If the gap is correct, apply **154-9731** Thread Lock Compound to both bolts (6).

   g. Torque the bolts (6) to 100 ± 20 N·m (74 ± 15 lb ft).

7. If the gap is more than 1.0 mm (0.0394 inch), perform steps:
    a. Loosen the two bolts (6) that secure the lower wear pad in place.

        Note: Do not loosen the two bolts that are under the setscrew.

    b. Turn set screw (7) clockwise in order to decrease the gap.
    c. Measure the gap and make any needed adjustments.
    d. If the gap is correct, apply **154-9731** Thread Lock Compound to both bolts (6).
    e. Torque the bolts (6) to 100 ± 20 N·m (74 ± 15 lb ft).

Checking Extension of the Stick

1. Set the stick so the stick is horizontal to the ground.
2. Extend and retract the extendable stick in order to check for any vibrations.
3. If no vibration is evident, proceed to "Adjustment of the Side Pad".
4. If the adjustment of the wedge has been performed and vibration is evident proceed to "Adjustment of the Side Pad".

    Note: A small amount of vertical movement of the outer slider is acceptable with a gap of 1.0 mm (0.0394 inch).

Adjustment of the Side Pad

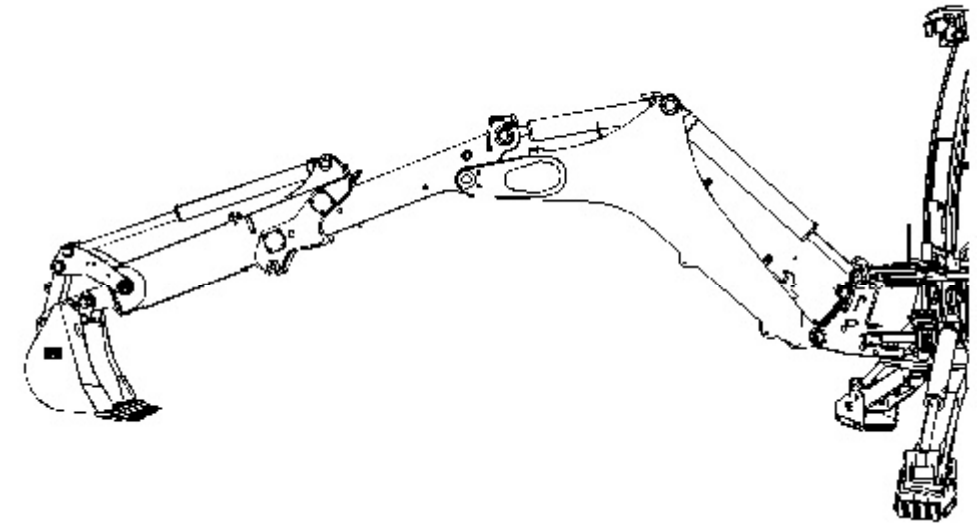

Illustration 7 g01359481

1. Position the machine. Refer to Illustration 7.

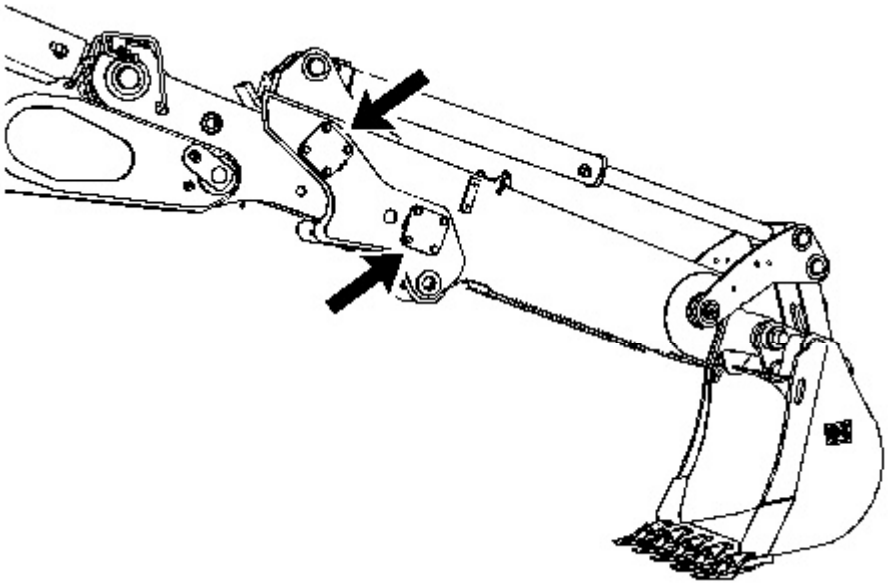

Illustration 8 g01283762

2. Raise the rear of the backhoe and make sure that the boom nose is level with the ground. Fully extend the stick and place the curled bucket slightly off the ground.
3. Check for free play between the side wear pads and the inner section of the stick.
4. Check each side wear pad with the outer slider in the following positions.
    - Extended 50.8 mm (2 inch) to 76.2 mm (3 inch)
    - Half extended
    - Fully extended

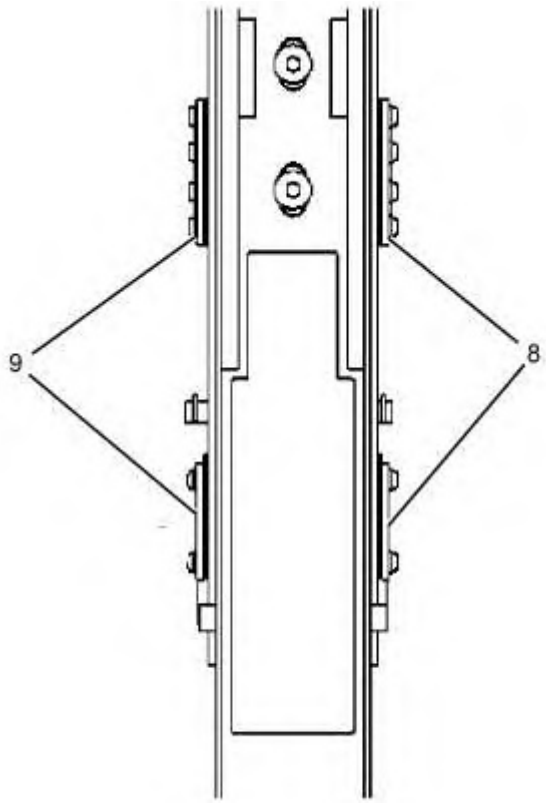

Illustration 9 g01413212

(8) 0.25 mm (0.0098 inch)
(9) No gap

5. Use a 0.25 mm (0.0098 inch) feeler gauge to check each side wear pad. One side should have no gap between the inner slider and the face of the pad (9). The other side should have a 0.25 mm (0.0098 inch) or less gap (8). See Illustration 9.

6. Ensure that a 0.25 mm (0.0098 inch) gap is present at the widest part of the three checked positions. This will be the position of the smallest gap between the inner slider and side wear pad. Setting the 0.25 mm (0.0098 inch) gap at a narrow point of the inner slider may allow vibrating as the wear pads travel over the wider points of the slider.

7. If adjustment is required, perform the following steps:

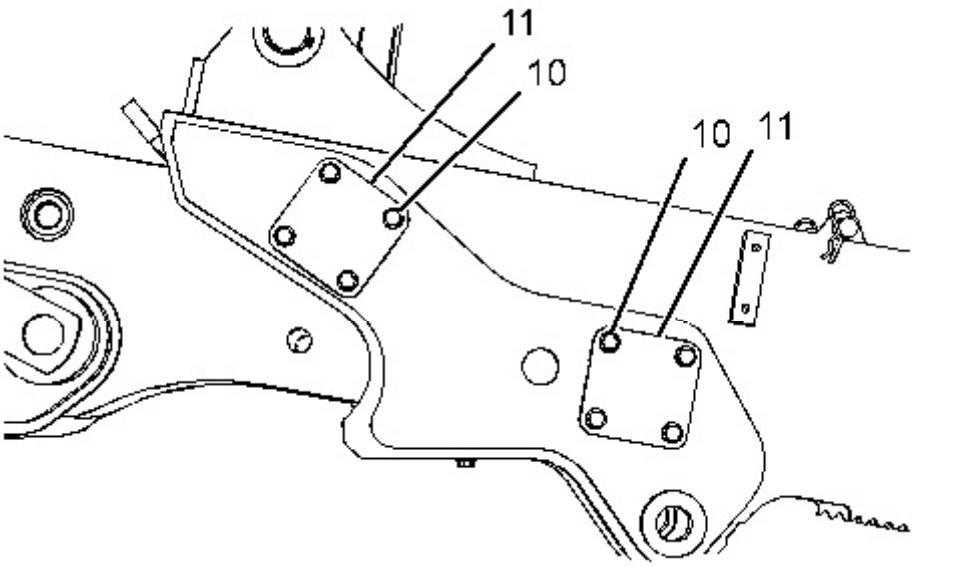

Illustration 10 g01413217

(10) **284-3615** Hex Socket Screws
(11) **233-5165** Plate

a. Remove the four hex socket screws (10) and the plate (11).

b. Apply an adequate number of shims in order to make the side lower wear pad flush with shims.

Note: The amount of shims should be equal on both sides within 0.5 mm (0.02 inch). The top side pad and bottom side pad do not need to have an equal number of shims.

c. Reassemble the cover (11) and torque the hex socket screws (10) to 50 ± 10 N·m (37 ± 7 lb ft).

d. Repeat steps for the remaining three additional side pads.

e. Proceed to Step 8.

8. Check extension of the stick after adjusting the side wear pads.

a. Set the stick horizontally to the ground.

b. Extend the stick and retract the stick in order to check for any vibrations.

c. If adjustment is too tight, then add a 0.5 mm (0.02 inch) shim to one of the side pads and recheck the adjustment.

Note: Choose a pad with the heaviest wear marks.

d. If adjustment is still too tight, then add a 0.5 mm (0.02 inch) shim to the corresponding pad on the other side and recheck the adjustment.

e. If adjustment continues to be too tight, then add a 0.5 mm (0.02 inch) shim to the remaining wear pads.

Note: Recheck for vibration before the addition of each shim. Do not exceed 0.5 mm (0.02 inch) of additional shimming at all four pads.

f. If the stick continues to vibrate, contact your local Cat dealer.

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420E, 430E, 432E, 434E, 442E and 444E Backhoe Loaders
Media Number -SEBU7687-11 **Publication Date -01/02/2015** **Date Updated -14/03/2019**

i05339847

Engine Oil Sample - Obtain

SMCS - 1348-008; 7542-008

Use the sampling valve in order to obtain a sample of the engine oil. The sampling valve is located on the side of the engine next to the oil filter base. The engine must be running in order to take a sample of the engine oil.

Note: Depending on machine configuration, a sampling valve may not be equipped. If no sampling valve is present, obtain an engine oil sample from the engine oil filler tube.

Refer to Special Publication, SEBU6250, "Caterpillar Machine Fluids Recommendations", "S·O·S Oil Analysis" for information that pertains to obtaining an oil sample. Refer to Special Publication, PEHP6001, "How To Take A Good Oil Sample" for more information about obtaining an oil sample.

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Engine Oil Level - Check

SMCS - 1302; 1318; 1326

NOTICE

Do not overfill the crankcase. Engine damage can result.

1. Open the engine access door on the top of the machine.

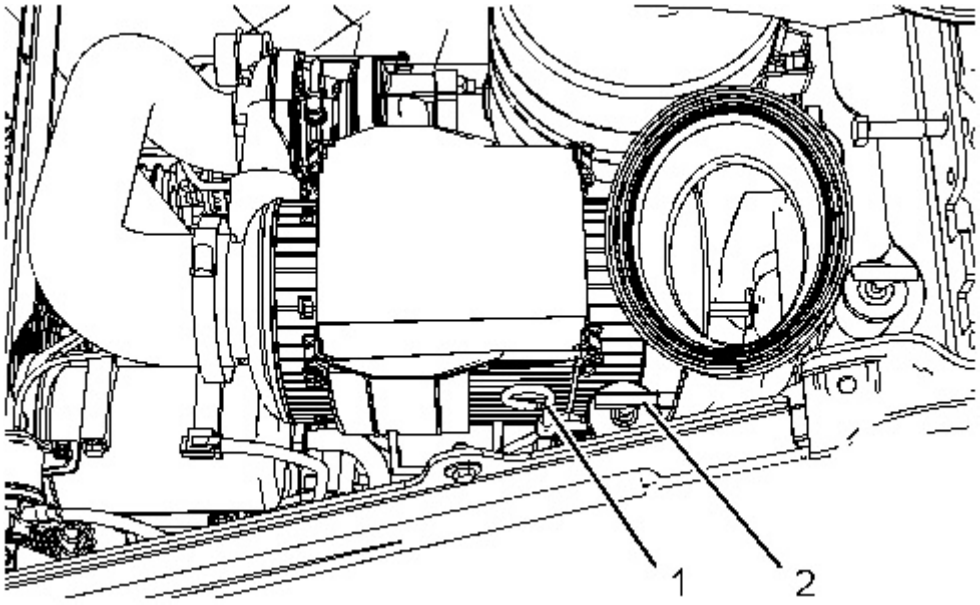

Illustration 1 g01180730

2. While the engine is stopped, maintain the oil level between the "ADD" mark and the "FULL" mark on the engine oil dipstick (1).

3. If necessary, remove the oil filler cap (2) and add oil.
4. Clean the oil filler cap and install the oil filler cap.
5. Close the engine access door.

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Engine Crankcase Breather - Replace

SMCS - 1317-510

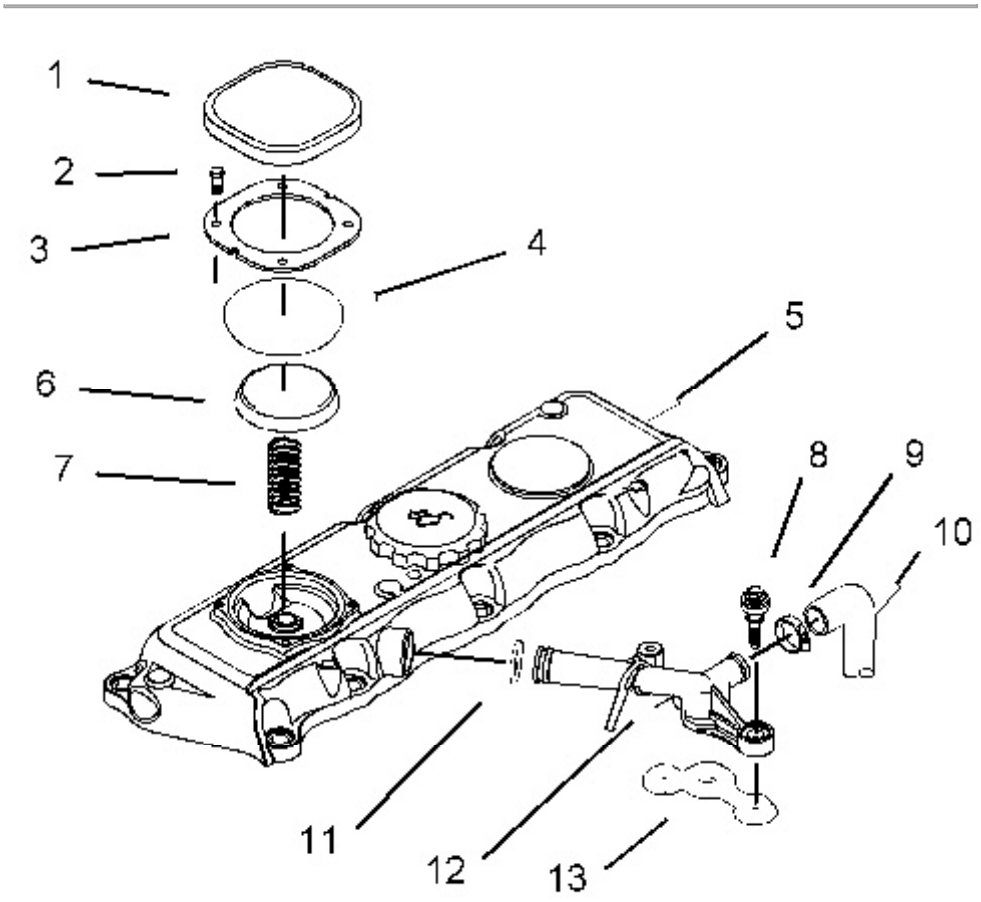

Illustration 1 g01149576

1. Loosen the clamp (9) and remove the hose (10) from the connector (12).

2. Remove the setscrews (8) and remove the connector (12) from the cylinder head. Remove the gasket (13). Remove the O-ring seal (11) from the connector. Discard the gasket (13) and the O-ring seal (11).

3. Remove the cover (1) from the valve mechanism cover (5).

WARNING

Personal injury can result from parts and/or covers under spring pressure.

Spring force will be released when covers are removed.

Be prepared to hold spring loaded covers as the bolts are loosened.

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4. Remove the screws (2). Remove the plate (3).

5. Remove the diaphragm (4) and the cap (6). Remove the spring (7). Discard diaphragm (4).

WARNING

Improper assembly of parts that are spring loaded can cause bodily injury.

To prevent possible injury, follow the established assembly procedure and wear protective equipment.

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6. Install the spring (7), the cap (6), and a new diaphragm (4).

7. Install the plate (3). Install the screws (2).

8. Install the cover (1) on the valve mechanism cover.

9. Install a new O-ring seal (11) on the connector (12). Install a new gasket (13) on the connector (12). Position the connector in the valve mechanism cover.

10. Install the setscrews (8). Tighten the setscrews to a torque of 9 N·m (80 lb in).

11. Install the hose (10) on the connector (12). Tighten the clamp (9) to a torque of 5 N·m (44 lb in).

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i02369952

Final Drive Oil (Front) - Change

SMCS - 4050

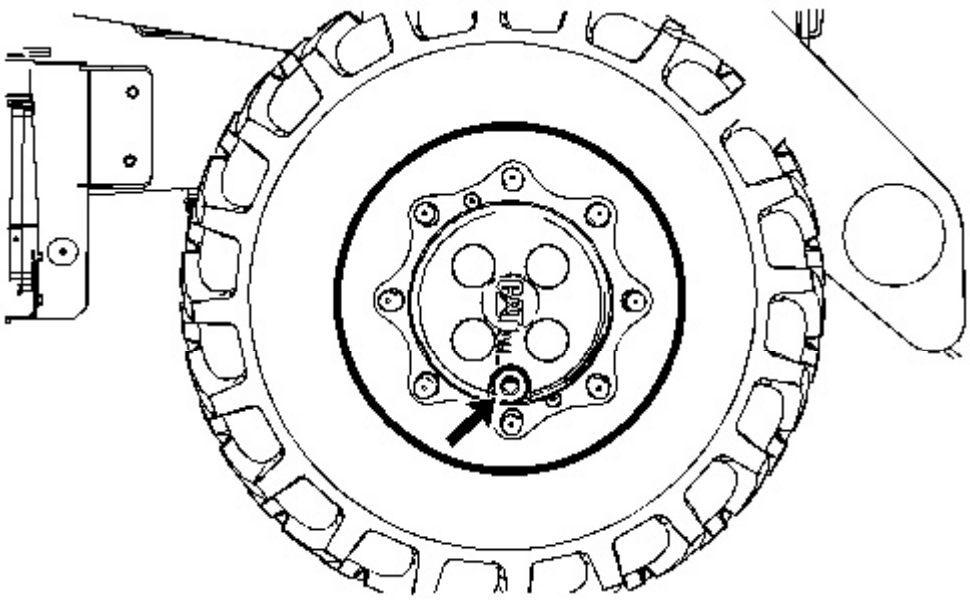

Illustration 1 g01182475

1. Position the oil fill/drain plug at the bottom. Remove the oil fill/drain plug and drain the oil into a suitable container.

2. The plug is magnetic. The plug will attract metal from the oil. Check the plug for an increased amount of metal on the plug. If any abnormal particles are found, consult your Caterpillar dealer.

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